106 306 206 406

USER MANUAL
GUIDE DE L'UTILISATION
MANUAL DE INSTRUCCIONES

FLUVAL®

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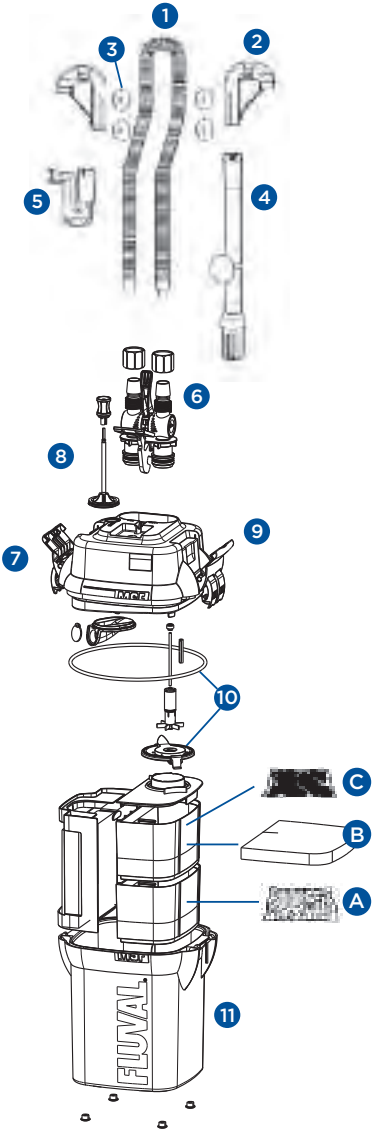

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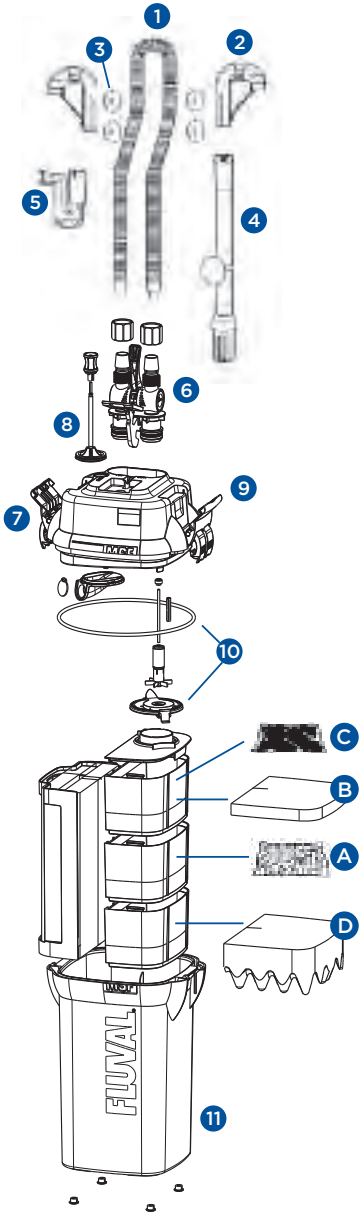

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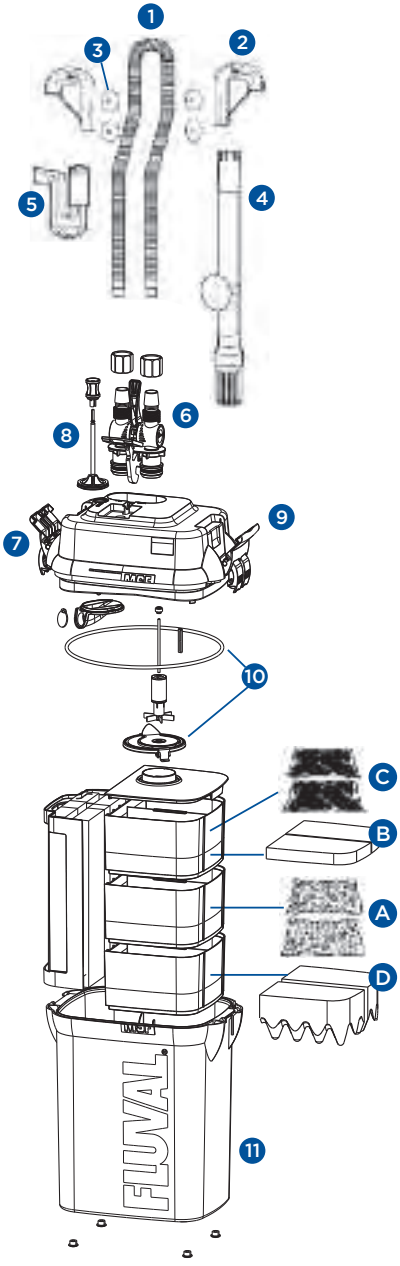

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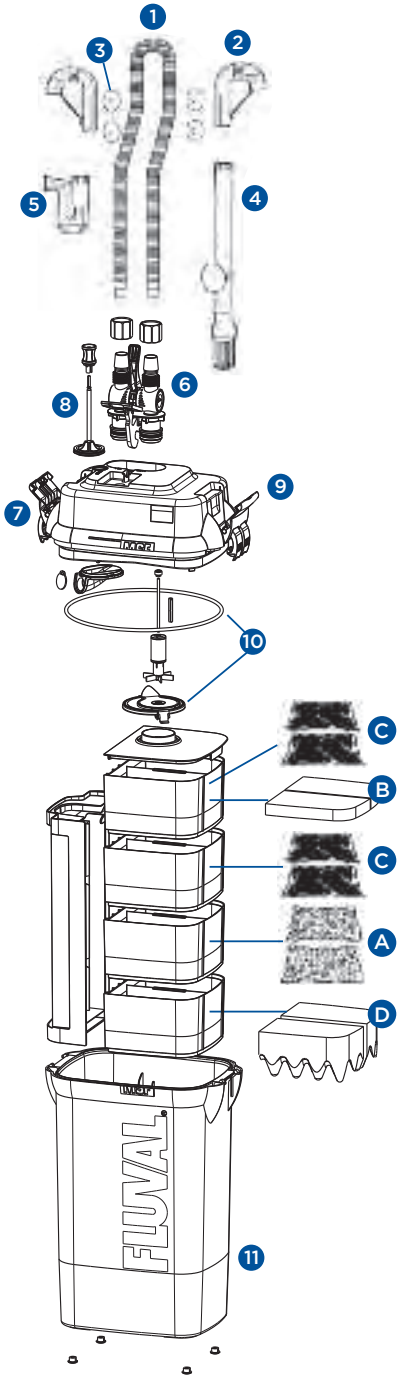

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PRODUCT PARTS

FLUVAL CANISTER FILTER

1 Hosing
2 Rim connector assemblies (2)
3 Suction cups (4)
4 Intake assembly with suction cup
5 Output nozzle assembly
6 AquaStop valve
7 Canister cover/pump housing
8 Instant-prime handle (attached)
9 Lift-lock clamps (attached)
10 Impeller cover and cover gasket
11 Filter canister (media baskets inside)

Refer to diagram on inside front cover.

MEDIA CONFIGURATION

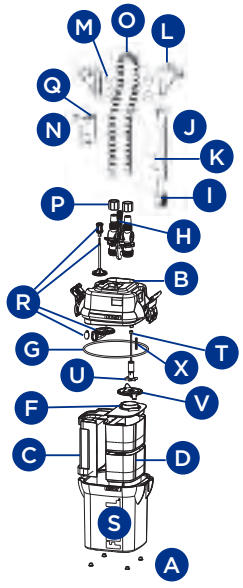
	MEDIA	FLUVAL 106	FLUVAL 206	FLUVAL 306	FLUVAL 406
A	Fluval BIOMAX	1	1	2	2
B	Fluval Water Polishing Pad	1	1	2	2
C	Fluval Carbon	1	1	2	4
D	Fluval Bio-Foam	-	1	2	2

Refer to diagram on inside front cover. Note sequence the media was packed in, this is the recommended media placement.

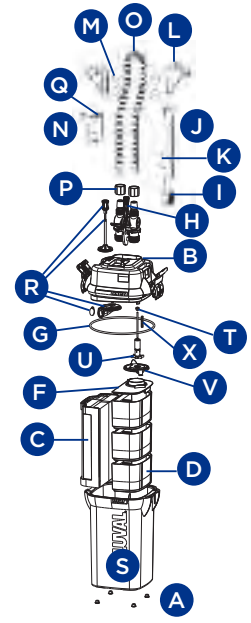
CONTENTS

Instructions in English EN-1
Instructions in French FR-1
Instructions in Spanish ES-1

Fluval 106



Fluval 206



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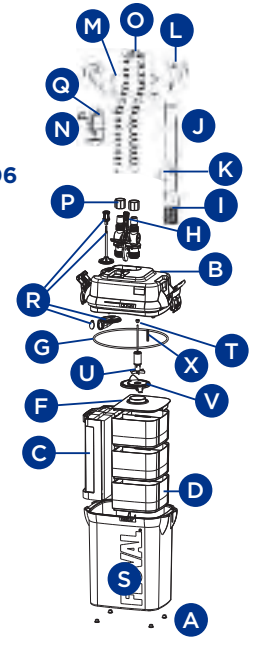
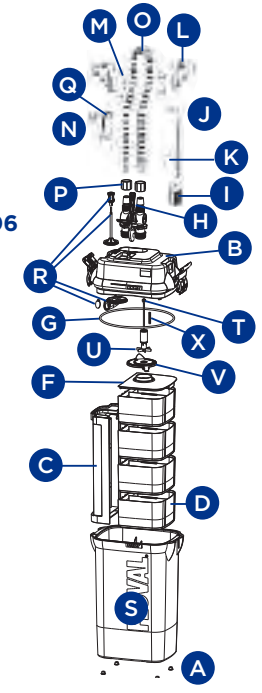


Fluval 406



Consulte las descripciones en la página anterior.

IMPORTANT SAFETY INSTRUCTIONS

WARNING - To guard against injury, basic safety precautions should be observed including the following:

1. **READ & FOLLOW ALL SAFETY INSTRUCTIONS**

   and all the important notices on the appliance before using. Failure to do so may result in the loss of fish life and/or damage to the appliance.

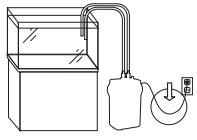
2. **DANGER – To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt repairs yourself, return the appliance to an authorized service facility for service or discard the appliance.**

   A. If the appliance falls into the water, DON'T reach for it! First unplug it and then retrieve it. If electrical components of the appliance get wet, unplug the appliance immediately.

   B. Carefully examine the appliance after installation. It should not be plugged if there is water on parts not intended to be wet.

   C. Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or it is dropped or damaged in any manner. The power cord of this appliance cannot be replaced. If the cord is damaged, the appliance should be discarded. Never cut the cord.

   D. To avoid the possibility of the appliance plug or receptacle getting wet, position the appliance to one side of a wall mounted receptacle. To prevent water from dripping onto the receptacle or plug, a "drip loop" (see photo) should be arranged by the user in the cord connecting appliance to a receptacle. The "drip loop" is that part of the cord below the level of the receptacle or the connector, to prevent water travelling along the cord and coming in contact with the receptacle. If the plug or receptacle does get wet, DON'T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then unplug and examine for presence of water in receptacle.



3. **WARNING –** Close supervision is necessary when any appliance is used by or near children. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

   Children should be supervised to ensure that they do not play with the appliance.

4. **To avoid injury, do not touch moving parts or hot parts.**

5. **CAUTION – Always unplug or disconnect all appliances in the aquarium from electricity supply before placing hands in water, before putting on or taking off parts and while the equipment is being installed, maintained or handled.**

   Grasp the plug and pull to disconnect. Never yank cord to pull plug from outlet.

   Always unplug an appliance from an outlet when not in use.

6. This appliance is not a submersible aquarium filter-pump. It is intended for use in ornamental household aquariums. It may be used with fresh or salt water. Maximum water temperature 35° C.

   Do not use this appliance for other than intended use (i.e.: do not use in swimming pools, bathrooms, etc.). The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition and will invalidate your warranty.

   Do not use this appliance:

   a. In swimming pools or other situations where people are immersed;

   b. With inflammable or drinkable liquids;

7. This is a HOUSEHOLD APPLIANCE INTENDED FOR DOMESTIC USE and it is suitable for INDOOR use only. Do not install or store this appliance where it will be exposed to the weather or temperatures below freezing.

8. Make sure that this appliance is securely installed before operating it and that the electrical connection is in accordance with the data on the rating label. Do not allow pump to run dry.

9. If an extension cord is necessary, a cord with proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled. The connection should be carried out by a qualified electrical installer.

10. **SAVE THESE INSTRUCTIONS**

    for future reference.

IMPORTANT

To ensure optimal and proper functioning of your 06 series Fluval External Filter, regular maintenance is required. Failure to do so may result in the failure of the filter and will invalidate your warranty. Additionally, regular cleaning and maintenance will greatly reduce or completely prevent faults and reduction in performance. Please refer to the maintenance schedule below.

MAINTENANCE FREQUENCY

COMPONENTS	MONTHLY	EVERY 3 MONTHS	EVERY 6 MONTHS	YEARLY
Magnetic Impeller & Impeller Well [1,4]	Check & Clean			Replace
Ceramic Shaft [4]	Check & Clean			Replace
Intake Stem/Strainer/Hosing [3]		Check & Clean		
Ribbed Hosing				Check & Clean
Primer Assembly with Primer Cover			Clean & Lubricate	
Gasket [2,5]	Check & Clean	Clean & Lubricate		Replace
AquaStop O-ring Gaskets		Clean & Lubricate		
Foams in the foam screen [6]	Check & Clean		Replace	
Bio-Foam [6]		Clean	Replace	
Polishing Pad [6]		Replace		
Carbon [6]	Replace			
BIOMAX [6]	Rinse		Replace Half Quantity	

1. Ensure Impeller Cover is fitted right way up when replacing.
2. Wet the seal ring with water before replacing. Do NOT use petroleum jelly based products.
3. Pipes will gradually block with protein slime and waste.
4. Yearly replacement ensures optimal performance.
5. The rubber seal will perish over time and will lead to leaking of canister if not replaced.
6. Refer to Fluval 06 Media instructions. Media needs replacing at different frequencies. Only ever change 50% at a time.

Fluval MultiStage Filters

offer advanced pumping technology and a versatile combination of mechanical, biological and chemical filtering capabilities. This versatility enables you to customize your aquarium environment to meet the specialized needs of your unique collection of fish and aquatic plants. Your filter comes with prepacked filter media that will work well for most basic aquarium setups. However, you have the option of selecting different media, or alternative configurations of media, if you wish. Because you have so much flexibility in selecting and positioning media, you are able to control water characteristics with far greater precision than with traditional filters.

In addition, Fluval 06 Series Filters provide more volume than would be possible with round canisters of the same outer dimensions. Increased volume means a greater mass of filter material and a larger filtration area. Fluval Filters multiply this advantage by directing water into complex flow paths for greatly increased contact with filtration media. The result? Maximum efficiency, reduced maintenance requirements, and the reliable flow of pure, properly conditioned aquarium water.

Fluval Filters are designed and engineered for dependable performance and ease of use. Features like click-on rim connector assemblies for hosing and one-step lift-lock clamps on the canister make setup and routine maintenance quick and convenient. Plus, Fluval's proprietary AquaStop valve lets you disconnect, then reconnect, the hosing without compromising the system's vacuum seal. This means you can stop the filter, then restart it instantly—without priming—for quicker, easier, more convenient maintenance.

The superior performance and capability of this filter is backed by Fluval's well-earned reputation for the best in fish and aquarium care, and your assurance of the most up-to-date and reliable research in aqua-care science.

For complete understanding of your Fluval Multi-Stage Canister Filter and enjoyment of all its capabilities, please read and follow these instructions for proper installation, maintenance, and use. Failure to do so may result in loss of fish life and/or damage to the filter.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

SYSTEM OVERVIEW

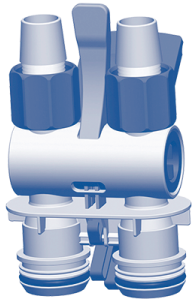
The Fluval 06 Series

filters offer several state of the art features to ensure reliable operation and trouble-free maintenance. Media is packed into filter baskets at the factory in the recommended positions for basic filtration in order to save you time and eliminate guesswork. The instant prime system assures startup ease. Plus, to make maintenance quicker, the AquaStop valve creates an air - and watertight seal so you can disconnect hosing without breaking the vacuum that will be necessary to resume operation without priming. For added convenience, media baskets are self-contained and interchangeable so that media can be rinsed or replaced in each one, independently of the others.

The intake assembly siphons aquarium water and suspended debris in through its clog-proof strainer. Water flows down through the foam screen frame, which traps large particulate matter. The filter's new more powerful and silent pump then draws the water up from the base of the unit through the media baskets for the customized stages of mechanical, chemical, biological and fine mechanical filtration that have been designed through media choices and placement. Filter media removes both waste particles and liquid impurities and can also be actively treated to change the water's chemical characteristics. As water flows, it brings oxygen into the system, feeding beneficial bacteria and breaking down nitrogenous wastes. After passing through all baskets, purified water enters the impeller well to be pumped back into the output hosing. As the output nozzle disburses the water, it creates currents that help break down wastes. All for a continuous flow of pure water, custom treated for a healthy, thriving aquarium environment.

AquaStop Valve

Fluval's exclusive AquaStop valve offers unparalleled convenience and ease of use. It creates an air- and watertight seal that allows you to disconnect the hosing without breaking the vacuum that keeps air out of the line. This means you can open the filter cover for routine maintenance and then start the system up again, with no need for priming. To stop the flow of water—instantly and completely—simply lift the AquaStop valve lever all the way up. During filtration, you can also use the AquaStop valve lever to regulate water flow, without harming the motor or its components.



Motor

The Fluval motor is hermetically sealed to ensure reliable operation. It requires no coolant and can be placed in a closed cabinet *(where airflow is restricted)* with no adverse impact on its performance or operating lifespan. There are no moving parts, except for the impeller.

Foam Screen Frame

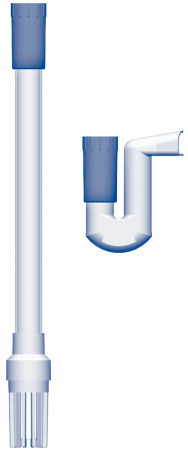
The foam screen frame is vertically oriented and can be removed without having to remove the filter media baskets. Containing two thick layers of replaceable foam blocks to provide a highly efficient initial stage of mechanical filtration. The large surface area of the foam captures particulate waste, which will be either be broken down or held. This prevents clogging of biological and chemical media and enhances overall filter effectiveness.

Intake Strainer

The intake strainer has a clog-proof, wide-mouth design to ensure steady rapid siphoning.

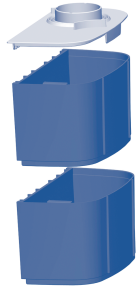
Output Nozzle

The output nozzle delivers a continuous flow of purified water. By dispensing water in a strong, wide flow it creates an agitation effect that helps break down wastes and keeps them in suspension until they can be siphoned away by the intake strainer. The more solids that are kept afloat, the fewer settle, for cleaner, healthier aquarium surfaces.



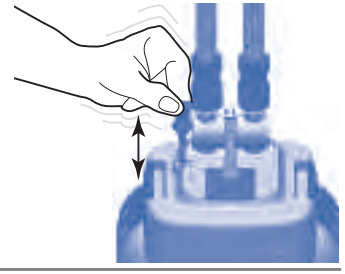
Media Baskets

Our system of interchangeable media baskets is the key to Fluval's flexible filtration system. Multiple modules allow a wide range of filter media options for maximum versatility. Use the basic filtration media included, or customize filtration by using your own combination of media in each basket. Create the configuration that's just right for your system. This unparalleled level of flexibility allows you to perfect your own aquatic environment.



Instant-Prime System – ***New and Improved***

No need for manual siphoning. A simple pumping motion of the Self-Primer initiates water flow.



Lift-lock Clamps

Securely lock cover in place. Easy to open.

Rim Connector Assemblies

The innovative rim connector assemblies slide on and snap together instantly for extra-quick setup. They hold the intake and output hosing securely in place.

Flow Rates

Fluval 06 series filters are available in four different models to accommodate aquariums of various sizes, from the smallest home tank to the largest commercial setup. They offer an outstanding array of filter choices for the hobbyist and professional aquarist alike.

The key to effective filtration is water circulation. The more water filtered per hour, the cleaner the aquarium will remain. In addition, water circulation is necessary to continually replenish the supply of oxygen in your aquarium. The faster a filter can "turn over" an aquarium's contents *(completely filtering the entire volume of water in the tank),* the cleaner and more highly oxygenated the water will be. Turnover rates are determined by a filter's volume and its flow rates.

Filter Area

The greater the filter media volume, the greater the mechanical efficiency and biological activity that will occur in the filtration process. Fluval 06 Series filters have been designed to maximize canister volume in all four models and to accommodate multiple filter media options, while at the same time increasing the pathways through the canister to give water more contact time with the media.

Pumping Power

The more powerful the motor, the faster it can work and the more water it can pump. Each model in the Fluval 06 Series filters is powered by a motor engineered for top performance, complete reliability, and maximum efficiency with minimum noise.

Capacity Engineered: Flow Rates, Filter Areas & Power

Model recommendations to provide ideal filtration for aquarium tanks of various sizes:

FLUVAL FILTER MODEL	AQUARIUM CAPACITY		PUMP OUTPUT		MECHANICAL AREA		BIOLOGICAL VOLUME		FILTRATION VOLUME		FILTER CIRCULATION*		MAX. WATER COLUMN HEIGHT	
	U.S. Gal.	L	U.S. Gal.	L/Hr	Sq. Yds.	mm²	U.S. Qt.	L	U.S. Qt.	L	U.S. Gal.	L/Hr	Ft.	m
106	25	100	145	550	30,666	36,800	1.44	1.37	3.36	3.2	95	360	4.75	1.45
206	40	200	206	780	46,666	56,000	2.10	2.0	4.84	4.6	121	460	4.75	1.45
306	70	300	303	1150	46,666	56,000	3.26	3.1	6.94	6.6	206	780	5.75	1.75
406	100	400	383	1450	63,583	76,300	4.42	4.2	8.94	8.5	245	930	7.38	2.25

*Flow rates were measured with intake and output hoses that were the same length

Filter pump electrical wattages

FLUVAL FILTER MODEL	120 V/60 Hz ELECTRICAL SUPPLY	230-240 V/50 Hz ELECTRICAL SUPPLY
106	10 W	10 W
206	10 W	10 W
306	16 W	15 W
406	23 W	20 W

IMPORTANT: Read all instructions before beginning.

- For best results, top off water in aquarium before beginning setup.
- Allow 30-45 minutes for setup and installation.
- Tools required: Utility knife. *(**Note:** For an unusually shallow aquarium, the intake tube may need to be cut; this requires a hacksaw.)*

DO NOT PLUG IN FILTER UNTIL SETUP IS COMPLETE AND UNIT IS FILLED WITH WATER.

1. Unpack and identify all parts

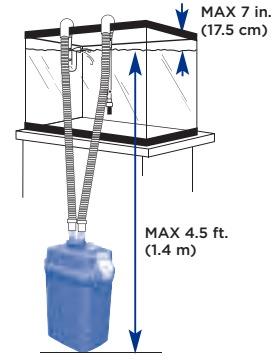
Use the diagram on the inside front cover as a guide.

2. Prepare the aquarium

1. **Decide on filter placement.** Remember, this is a gravity-fed system. For it to work properly, all the Installation Requirements below must be adhered to.

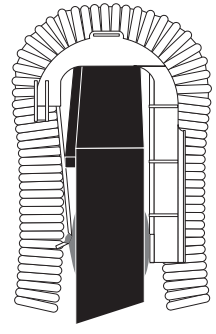
Installation Requirements

- The canister base must **never be more than** 4.5 ft. (1.4 m) below the water level.
- Hosing must follow a **straight path** from the filter to the aquarium rim, with **no loops and very little slack.**
- The water level should **never be more than** 7 in. (17.5 cm) below your aquarium rim.
- **The filter must ALWAYS be positioned below the aquarium.**
- Intake tube should not be positioned in close proximity to an air source.

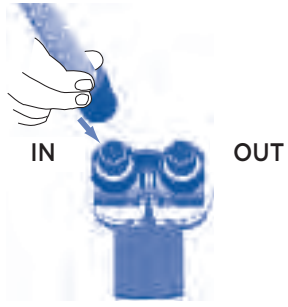


2. **Place the two rim connector assemblies over the back top edge of the aquarium.** Place one just above the spot where you want to position the intake tube; place the other just above the spot where you want to position the output nozzle. Be sure the longer section of each connector is on the outside of the aquarium. *Attach suction cups to the outside and inside section of each connector.*

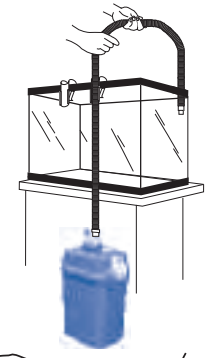
IMPORTANT: Be sure to position the intake tube away from any air source—an air stone, an aeration device, or the output valve. Air entering the intake strainer will diminish filter efficiency.



3. Prepare intake connections



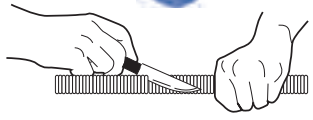
1. **Insert the AquaStop valve into the intake and output connectors on the cover,** and push down on the locking lever to lock it in place.
   a. Position the filter below the aquarium where it will sit while operating.
   b. **Attach hosing to the intake connector (IN) on the AquaStop valve;** the input connector will be on your left.
   c. Push one end of the hosing onto the valve; push it all the way, as far as it will go.
   d. Turn the lock nut counter clockwise until it is as tight as you can make it without forcing.



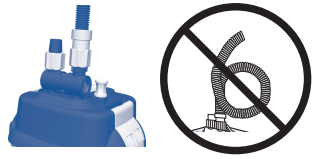
2. **Measure and cut the hosing.** You will need a length of hosing that reaches comfortably from the filter canister to inside the aquarium.
   a. Stretch out the hosing up to the top of the aquarium so it rests over the "intake" rim connector assembly.
   b. At a spot about 4 in. (10 cm) beyond the aquarium rim, use a utility knife to cut the hosing. **Do not cut the hosing too short.**

   IMPORTANT: You will want the hosing to be long enough so that its connection point with the intake assembly is always about 3 in. (7.5 cm) below the water line.

   Remember, you can always cut hosing shorter during final installation, if necessary.



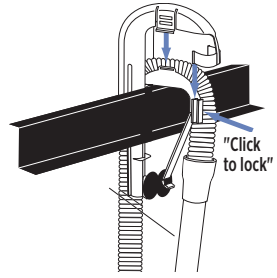
3. **Push the cut end of this "intake" hosing into the rubber connector on the intake tube.** Push the hosing in by at least 1 in. (2.5 cm) without twisting it.



IMPORTANT:

- Hosing must follow a straight path with **no kinks or loops and very little slack.**
- If the hosing is too long, the filter will not work properly.
- The factory-finished end of the hosing must connect to the AquaStop valve.
- To ensure a watertight seal, the cut end of the hosing, which connects to the intake assembly, must be kept under water.

4. **Clip the suction cup onto the intake assembly near the strainer and place the assembly in the tank,** making sure the strainer is at least 3 in. (7.5 cm) from the bottom. *(If the tube is too long for the height of your aquarium, remove the strainer from the intake assembly, cut the tube with a hacksaw, and then replace the strainer.)* Once the intake assembly is properly positioned, lock it in place by pressing the suction cups against the glass.

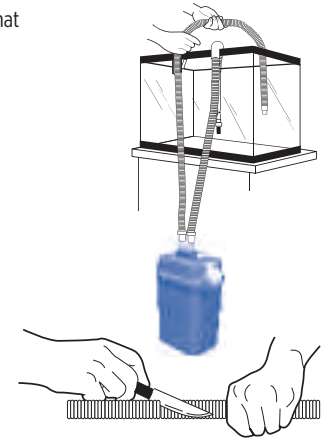


5. **Position the top half of the rim connector assembly over the hosing** and push down until it "clicks" to lock the hosing in place.

4. Prepare output connections

1. The remaining length of hosing will be used for output.

   Attach the hosing to the output connector (OUT) on the right side of the AquaStop valve.
   a. Push the factory-finished end of the hosing onto the valve; push it all the way, as far as it will go.
   b. Turn the lock nut counter clockwise until it is as tight as you can make it without forcing.

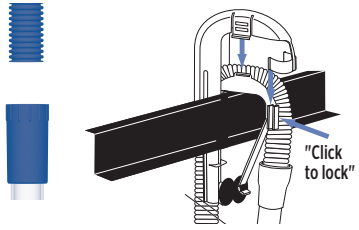


2. **Measure and cut the hosing.** Again, you will need a length of hosing that reaches comfortably from the filter canister to inside the aquarium.
   a. Stretch out the hosing so it rests over the "output" rim connector assembly.
   b. At a spot about 4 in. (10 cm) beyond the aquarium rim, use a utility knife to cut the hose. **Do not cut the hose too short.** Remember, you can always cut it shorter during final installation, if necessary.

   IMPORTANT: Remember, to maintain a watertight seal, the connection point between the hosing and the output nozzle should be kept below the water line.

3. **Push the cut end of this "output" hosing into the rubber connector at the top of the output nozzle assembly.**
Push the hosing in by at least 1 in. (2.5 cm) without twisting it.

4. **Place the output nozzle in the tank** about 0.8 in. (2 cm) below the water line; then push the top half of the rim connector assembly down until it "clicks" to lock the hosing in place.



5. Prepare the Filter

First disconnect AquaStop from filter and bring the filter to a sink making sure there are no soaps or chemicals which could contaminate the filter.

IMPORTANT: The Bio-Foam, BIOMAX, fine pads and carbon filter media supplied with your Fluval filter have been deliberately placed in Upper, Mid, and Lower level baskets to indicate their **recommended placement** for optimal basic filtration. Be sure to note this positioning and place media in baskets **at the same levels** as you prepare the filter for use.

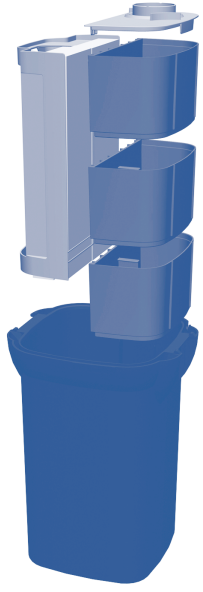
1. **Remove the foam screen frame, media cover, and media baskets from the filter canister. The small white styrofoam square must be discarded.** As you remove Carbon and BIOMAX from baskets, note which levels they were packed in. Then **remove their outer wrappers;** do not remove carbon from porous bag(s).

2. **Rinse baskets and media materials under running tap water** to remove any dust, and place media in baskets. Or, if you prefer, select other media of your own choosing. *(See "Fluval Advanced Filtration" for more information.)*

3. **Place rinsed and filled media baskets back in canister,** and put the media cover back on top basket.

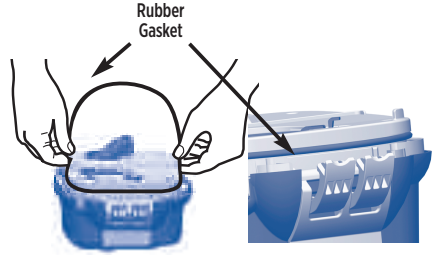
IMPORTANT: Make certain that each kind of media is positioned at the same level it was packaged in, unless you are deliberately choosing a different filtration plan than the recommended basic setup. Never overfill baskets. If baskets or cover are out of position, cover may not close properly.

4. Rinse both sides of the foam screen frame under tap water before initial use to remove any possible contaminants, and slide it back into position in the canister, flat end down. **If the screen does not seem to fit properly, be sure it is not upside down.**



5. **Complete canister cover assembly:**

a. Lay the canister cover on a flat surface with its topside down. Remove the lubricated rubber gasket from its plastic bag. To seal the cover opening properly, the gasket must be moist but it need not be wet. Carefully fit the gasket into the channel around the base of the cover.



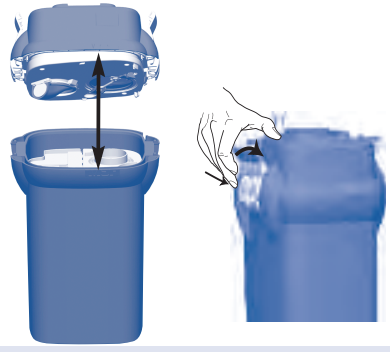
b. Slide the impeller cover tab into the tab receptacle on the rim of the impeller chamber. Push down the opposite side of the impeller cover making sure the impeller starts to seat itself in the center of the impeller cover. Continue to push down until the retailing tab "clicks" and locks into position.

6. **Place the cover on the canister.** Be sure to position it properly. There is only one orientation possible. Make certain that the MSF logo on the cover and canister is aligned and that the power cord fits into the notch on the rim of the canister.

7. **Lock the cover in place.** Push the double tabs of the lift-lock clamps under the rim; then press the upper tabs firmly against the cover.

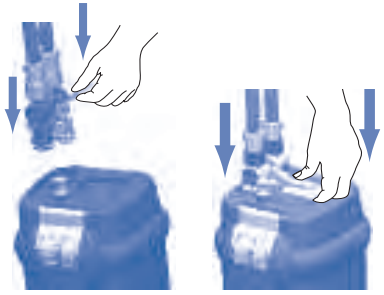
DO NOT FILL CANISTER WITH WATER

8. **Place the unit in its final position.**



IMPORTANT REMINDERS:

- This is a gravity-fed system. For it to work properly, the filter must be positioned vertically below the aquarium.
- The distance between the bottom of the canister and the maximum water level must not exceed 4.5 ft. (1.4 m).
- Hosing must follow a **straight path** from the filter to the aquarium rim, with **no loops and very little slack.**
- **If hosing is too long, filter will not work properly.**
- **The water level should never be more than 7 in. (17.5 cm) below your aquarium rim.**
- **NEVER install the filter above the water level.**

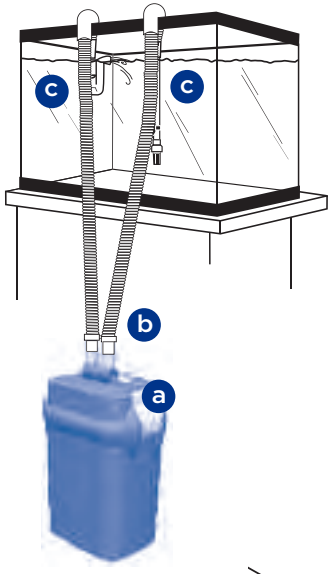


9. **Insert the AquaStop valve into the intake and output connectors on the cover,** and push down on the locking lever to lock it in place.

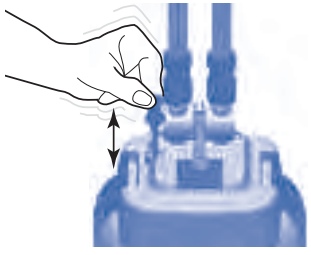
10. **Open the AquaStop valve by pushing the valve lever all the way down.** *(The valves must be fully open before the unit is turned on or primed.)*

6. Start the filter

1. **Check your installation.**
   a. Be sure lift-lock clamps are securely closed.
   b. Make certain that the AquaStop valve is fully open and pushed all the way down.
   c. Check to see that the intake assembly and output nozzle are both fully submersed in water.



2. **Pump the instant-prime handle** by pulling it up and pushing it down, several times, until you hear water being drawn into the unit. Return the instant-prime handle to the down position. As water flows through the intake hosing, it will fill the canister, pushing air out of its way. Air will be expelled through the output nozzle, causing the water in the aquarium to bubble. To expel all the air in the system as quickly as possible, the AquaStop valve must be fully open.
Be sure the lever is all the way down.



3. **Once the bubbling in the tank stops,** you'll know the air is out of the system, and the canister is full; **plug the power cord into an electrical outlet.**

THE PUMP WILL START IMMEDIATELY.

Water should flow from the output nozzle continuously. If it does not, check your installation to be sure of the following:

- No kinks or loops in the hosing.
- The base of the canister is not more than 4.5 ft. (1.4 m) below the water level.
- The water is not more than 7 in. (17.5 cm) below the aquarium rim.
- The intake assembly is securely attached to the aquarium wall.
- No air is bubbling into the water at points where the intake assembly and the output nozzle connect to the hosing.
- No water is escaping from the hosing at the AquaStop valve connection points.
- The canister cover is securely closed.
- Both levers on the AquaStop valve are both pushed all the way down.

Continue pumping the instant-prime handle until the unit starts to run on its own.

IMPORTANT: To prevent damage:
- Never plug the filter in unless the canister is completely full of water.

Adjusting Water Flow

Once the filter is operating continuously, you can use the top lever on the AquaStop to regulate the water flow. To reduce the water flow, lift the lever up to halfway, but no higher. This can be done once the unit is fully operational, and will not harm the motor. However, never run the filter with the lever up (closed) more than half way.

Air in the Filter

Some air will become trapped in the canister as it fills; air may also be released by new media.

Eventually, the filter will expel all air pockets. If you notice excessive bursts of bubbling over an extended period of time, check all hosing and connections for air leaks. Also, make sure there is no air source *(such as an airstone or aeration device)* near the intake strainer.

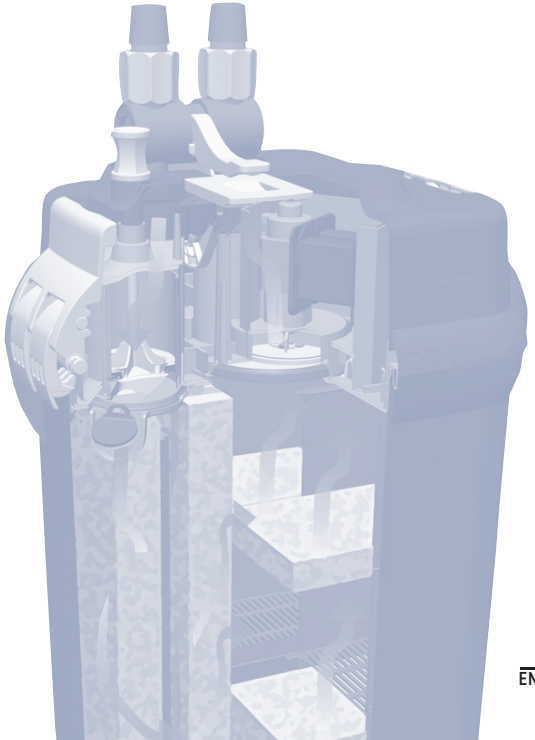
The Fluval stack of media baskets

The stack of media baskets in the Fluval 06 series filters enables you to employ all three types of filtration in whatever configuration or sequence you determine is best to meet the needs of your aquarium environment.

Filtration always begins with a mechanical stage of waste particle removal as water flows through various foam screens, and continues with subsequent biological and chemical stages as it flows up through the media in the baskets.

Because you can use the media of your choosing at each level, you will able to design a system that provides additional mechanical, biological and chemical filtration if you wish.

For detailed information, as well as general guidelines for media selection please visit **www.fluvalaquarium.com**



General Guideline

Location can determine function: For example, BIOMAX can act primarily as a screen for debris or act more as an environment for growth of beneficial bacteria, depending on where it is placed in the filtration sequence.

Proper preparation is key: Some materials, such as Ammonia Remover, require thorough rinsing so that their finest particles do not clog other modules or discharge into the aquarium. **For best results and the protection of your fish, always read and follow the preparation instructions for the media you are using.**

Use mechanical filter media in the first stage of filtration: This helps ensure that the water will be as free of debris as possible when it flows through biological and/or chemical filters, which require clear water for maximum effectiveness.

To achieve maximum effectiveness, Fluval 06 offers three types of mechanical filtration: the white foam traps the larger particles, the black foam traps smaller particles and the polishing pad removes the micro-particulate.

Protect chemical media from debris: Chemical filtering media modifies the chemical characteristics of the water by absorbing toxic compounds (eg, medicines, odors and organic contaminants). The filtration effectiveness of Fluval activated carbon, for example, is provided by its huge surface and contact with water (up to 1000 m^2/g). Therefore it is necessary to prevent the chemical filter media from clogging by macro and micro-particulate. Placing chemical filter media at the last stage of filtration will allow it to work best.

Lower level basket

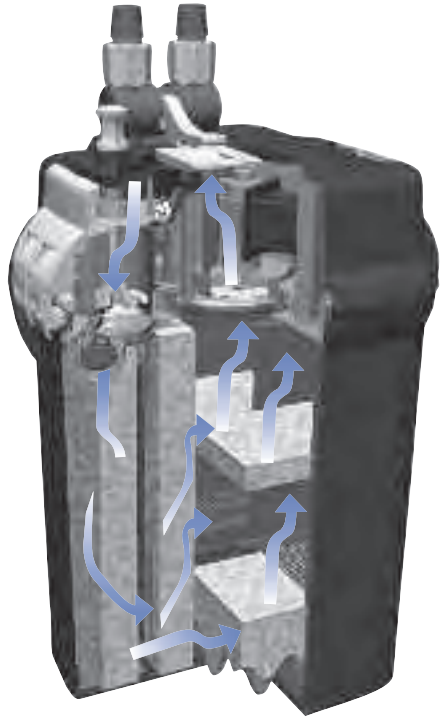
Media that continues the mechanical capture of small particles should be placed in the lowest media basket, to purify water and/or remove particles before they can clog delicate pores of biological or chemical substrates. The Bio-Foam is ideal to remove small dirt particles that are not retained by the Foam Screen Frame. In addition, this foam provides a large surface to accommodate bacteria colonies, providing an ideal environment for proliferation of beneficial bacteria and increasing the biological action of Fluval BIOMAX.

Mid Level Basket(s)

The mid level basket is a good place to begin the biological reduction process. A lot of media types provide both mechanical filtration and biological treatment, creating an excellent environment for beneficial bacteria to proliferate. With the primary mechanical purification of the water stream occurring in the Foam Screen Frame and the lower basket, it is typical to load biological media as BIOMAX into the mid level basket.

Upper level basket

This basket receives the clearest water, making it the ideal place for dedicated chemical media. Placed here, Carbon, for example, efficiently removes discolorations, medications and solubilized wastes that a mechanical screen cannot. To increase the action of chemical filter media and to prevent clogging from micro-particulate, it is suggested to use a Polishing pad just prior to the chemical media. The fine filtration and chemical materials require more frequent maintenance than biological materials and their placement at the top makes it easier to wash and/or replace without affecting the biological media.



WARNING: ALWAYS DISCONNECT ALL APPLIANCES IN THE AQUARIUM FROM THE ELECTRICAL SUPPLY BEFORE PLACING HANDS IN THE WATER, BEFORE PUTTING ON OR TAKING OFF PARTS, AND WHENEVER THE FILTER EQUIPMENT IS BEING INSTALLED, MAINTAINED OR HANDLED.

Media Care

Filter Media must be periodically replaced or cleaned in accordance with instructions on individual packages. Actual life span of any type of media will vary based on usage and the specific characteristics of each aquarium. To remove and replace media, follow the instructions below.

IMPORTANT: Never replace all media at the same time. Stagger filter media changes so that some older media remains in use. This ensures re-seeding of beneficial bacteria, so that colonies discarded with old media will be replaced by vigorous new ones. To enhance bacterial action, use Nutrafin Cycle Biological Aquarium Supplement each time you change the media. All rubber parts, cover gasket, primer stem, AquaStop Valve and seal rings should be periodically lubricated.

1. Drain the filter

1. **Close the AquaStop valve** by lifting the lever all the way up. This seals off the input and output hosing connections to maintain the vacuum that is necessary in order to restart the filter without priming.
2. **Unplug the power cord.**
3. **Lift the locking lever** to release the AquaStop valve.
   It is not necessary to remove the hosing from the AquaStop valve unless the hosing, the AquaStop valve or both require cleaning. *(Periodic cleaning is recommended to ensure optimal water flow. A good time to do this is during a major water change. To clean, rinse under running tap water; if necessary use an appropriate Fluval Cleaning brush.)*
4. **Hold the unit by the canister, not the cover, and move it to an appropriate flat surface** near a sink or other drain. *(Be sure to keep it upright to avoid spills.)*
5. **Release the lift-lock clamps;** then push down on clamps to lift the cover/pump housing off the canister and set it aside.
6. Holding the media cover in place, tilt the canister over the sink or drain, and pour out as much water as possible.
7. **Media and foam screen will be saturated with water.** If your sink is not large enough to hold them, have appropriate bucket nearby. Lift the foam screen, media cover, and media baskets out of the canister and place them in your sink or bucket.
8. **Rinse the interior of the canister with clear water. NEVER use soap or detergents** when cleaning canister or rinsing foam screen or media baskets. Traces of cleaning products may remain on surfaces and damage sensitive fish tissues.
9. **Rinse the interior of the priming cylinder with clear water.** Be sure the cylinder has no debris trapped in the green flapper valve and it is sitting flush in a closed position.

2. Clean or replace media

1. **Replace chemical media, as needed.** Chemical media cannot be cleaned.
2. **Rinse biological media with aquarium water, never tap water, or replace as required.**
   Never replace all biological media at one time, as valuable colonies of beneficial bacteria would be lost.
3. Rinse screen foams and bio-foams using aquarium or de-chlorinated tap water or replace foams as needed.
   For the most thorough cleaning possible, slide the foam out of the screen frame and rinse each piece separately; rinse and wipe the screen; then reassemble. Be sure that the foam is protruding from the top of the screen.
   Rinse any other mechanical media also.
   NEVER use soap or detergents on foam or screen, as traces of cleaning products could harm fish.

3. Reassemble unit

DO NOT FILL CANISTER WITH WATER WHEN RE-ASSEMBLING UNIT

1. **Place rinsed and filled media baskets back in canister** and put cover back on top basket.
2. **Replace foam screen in canister.** *(Insert with flat end down.)*
3. **Inspect and lubricate gasket as needed.**
4. **Replace the cover,** making certain the MSF logo and power cord are properly aligned.
5. **Use the lock-lift clamps** to close the cover securely.
6. **Place the unit back in position; re-insert the AquaStop valve,** and push down the locking lever to lock it in place.
7. **Push down on the valve lever to open the AquaStop valve.** Water should start flowing immediately.

   IMPORTANT: If the hosing has been disconnected from the AquaStop valve, or if the system has lost its vacuum for some other reason, the canister will not fill automatically. Use the instant-prime handle to fill the canister.
8. **Allow the canister to fill completely,** then plug the power cord back into the electrical outlet.

   IMPORTANT: If the canister is not full before the filter is plugged in, it may not work properly.
   The filter unit should never be allowed to run dry. Running the unit dry may result in damage to the motor.

MAINTENANCE

Impeller Care

The impeller well has an effective self-cleaning feature. However, it is a recommended that you remove the impeller cover and inspect the impeller as part of your routine maintenance. Keeping the impeller clean lengthens its life and the life of the motor.

IMPORTANT: The impeller fan has a ceramic shaft, which is resistant to wear and tear in use, but is still fragile. Handle carefully during maintenance.

1. **Remove the impeller cover:** Pull the tab over and gently pry off.
2. **If the impeller needs cleaning,** grasp the fan and draw it gently from the well. Rinse it under clean water.
3. **If the well needs cleaning,** wipe gently with a Fluval Cleaning Brush.
4. **Replace the impeller in the well:** Slide the impeller cover tab into the tab receptacle on the rim of the impeller chamber. Push down the opposite side of the impeller cover making sure the impeller starts to seat itself in the center of the impeller cover. Continue to push down until the retailing tab "clicks" and locks into position.

NOTE: The ceramic impeller shaft is held on the bottom of the impeller well by a rubber support. The shaft can be easily extracted and reinserted by hand; however, pay close attention to be certain the rubber support does not become unseated. (Always replace the impeller cover to ensure proper alignment).

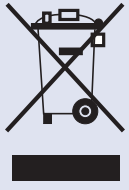
The impeller will wear out over time. A replacement may be ordered from your local Fluval dealer or by contacting customer service at Rolf C. Hagen Corp.

Replacing the Primer

If the primer becomes damaged or worn and requires replacement, remove the motor head from the filter case. Snap off the primer handle by twisting sideways. Once the handle is removed, push the primer shaft down and remove the primer by grasping the plunger from the underside of the motor. Insert the new shaft with the attached plunger, snap the primer hand back onto the primer shaft and replace the primer cover locking it into the correct position with a "click".

Recycling

This product bears the selective sorting symbol for waste electrical and electronic equipment (WEEE).This means that this product must be handled pursuant to European Directive 2002/96/EC in order to be recycled or dismantled to minimize its impact on the environment. Check with your local Environmental Agency for possible disposal instructions or take to an official council registered refuse collection point. **Electronic products not included in the selective sorting process are potentially dangerous for the environment and human health due to the presence of hazardous substances.**



QUESTIONS?

If you have any queries or comments about the operation of this product, please firstly refer to your set-up and maintenance instructions. Most issues can be resolved immediately with a little maintenance. If you have any doubt or if you need replacement/maintenance parts, please contact your local aquatic specialist retailer for further advice. If you wish to seek technical advice please call or write to us before returning the product under the warranty terms.

Most problems can be handled promptly with a phone call.
Or, if you prefer, you can contact us on our web site at **www.hagen.com.**

When you call (or write), please have all relevant information, such as model number and/or part numbers available, as well as the nature of the problem.

CANADA

CALL US TOLL-FREE AT:
1-800-554-2436
between 9:00 a.m. and 4:00 p.m. Eastern Standard Time.
Ask for Customer Service.

FOR AUTHORISED GUARANTEE REPAIR SERVICE:
Return with dated receipt and $4.00 for postage and handling to:

Rolf C. Hagen Inc.
Service and Repair
20500 Trans Canada Hwy
Baie d'Urfé, Québec H9X 0A2

USA

CALL US TOLL-FREE AT:
1-800-724-2436
between 8:30 a.m. and 4:00 p.m. Eastern Standard Time.
Ask for Customer Service.

FOR AUTHORISED GUARANTEE REPAIR SERVICE:
Return with dated receipt and $4.00 for postage and handling to:

Consumer Repairs
Rolf C. Hagen (USA) Corp
305 Forbes Blvd
Mansfield, MA 02048

For more information on our products, please visit our website: **www.hagen.com.**

THREE YEAR WARRANTY

Fluval 06 Series External Filters are guaranteed against defects in material and workmanship under normal aquarium usage and service for 3 years from date of purchase. Non-replaceable and non-serviceable parts will be repaired or replaced at Hagen's discretion, free of charge, when the complete filter is returned with all components along with a valid proof of purchase and postage paid. This warranty does not apply to any filter that has been subject to misuse, negligence or tampering. It does not apply to filters which have been incorrectly assembled or unsuitably maintained or where installation and maintenance instructions have not been followed correctly. The warranty does not apply to wear and tear parts such as the impeller, impeller cover or motor seal. No liability is assumed with respect to loss or damage to livestock or personal property irrespective of the cause thereof. Before returning the filter under warranty terms, please ensure that all setup and maintenance instructions have been followed. If you are in doubt, please contact your local aquatic specialist retailer for further advice before returning the product.

FLUVAL

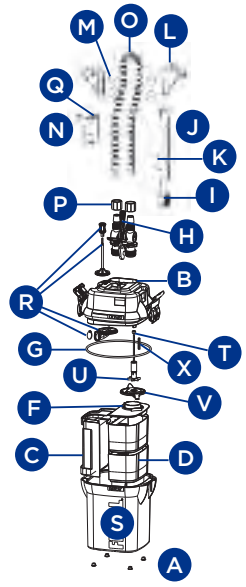
REPLACEMENT PARTS

Order replacement part from your Fluval dealer or by contacting Customer Service.

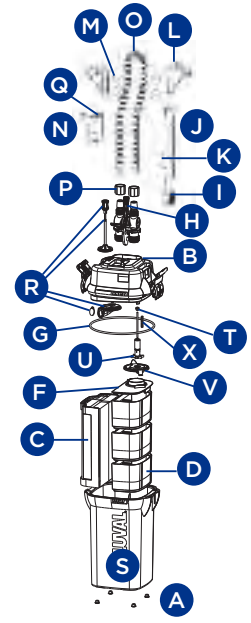
	PARTS	FLUVAL 106	FLUVAL 206	FLUVAL 306	FLUVAL 406
A	Rubber Feet	A-20121	A-20121	A-20121	A-20121
B	Motor Head	A-20181	A-20186	A-20191	A-20196
C	Foam Insert Frame	A-20122	A-20122	A-20123	A-20123
D	Media Basket	A-20046	A-20046	A-20043	A-20043
F	Media Basket Cover	A-20042	A-20042	A-20067	A-20067
G	Gasket	A-20038	A-20038	A-20063	A-20063
H	AquaStop Valve	A-20061	A-20061	A-20061	A-20061
I	Intake Strainer	A-20007	A-20007	A-20008	A-20008
J	Intake Stem with Intake Strainer	A-20010	A-20010	A-20011	A-20011
K	Suction Cup (40mm) with clip	A-15520	A-15520	A-15520	A-15520
L	Aquarium Rim Connector	A-20026	A-20026	A-20026	A-20026
M	Suction Cup (30mm)	A-15041	A-15041	A-15041	A-15041
N	Output Nozzle	A-20001	A-20001	A-20001	A-20001
O	Ribbed Hosing	A-20014	A-20014	A-20015	A-20015
P	Hose-Lock Nuts	A-20059	A-20059	A-20059	A-20059
Q	Rubber Hose Connector	A-20016	A-20016	A-20017	A-20017
R	Primer Assembly with primer Cover	A-20021	A-20021	A-20021	A-20021
S	Filter Canister	A-20182	A-20187	A-20192	A-20197
T	Ceramic Impeller Shaft & Rubber Bushing	A-20039	A-20039	A-20039	A-20039
U	Magnetic Impeller with Ceramic Shaft & Rubber Bushing	A-20112	A-20112	A-20153	A-20173
V	Impeller Cover	A-20114	A-20134	A-20154	A-20154
X	Impeller Well Insert	A-20174	A-20174	A-20174	A-20174
	Motor Head Maintenance Kit Magnetic Impeller Ceramic Shaft & Rubber Support Impeller Cover Gasket	A-20090	A-20091	A-20092	A-20093

See following page for diagrams.

Fluval 106



Fluval 206



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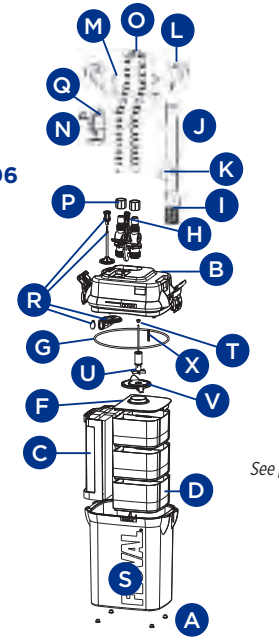
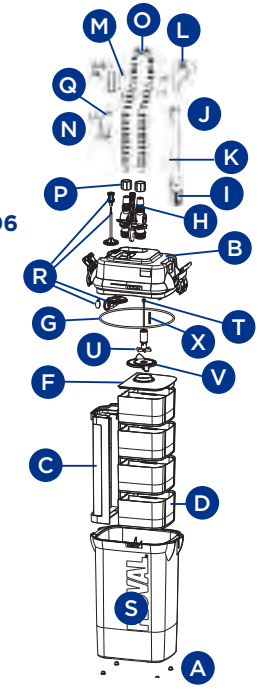


Fluval 406



See previous page for descriptions.